Serial No. 10/677,770

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Status of claims as of April 13, 2006

- 1. (currently amended) In the method of manually installing arch shape cross section thermoplastic leaching chambers having sidewalls with a multiplicity of small perforations for passage of water and having widths of about 3 feet, for forming an interconnected string of chambers within a trench in soil, wherein each chamber has a first end and an opposing second end, wherein the first and second ends of adjacent chambers are configured to mate with a load transferring joints, the improvement which comprises: making the length of each chamber in the range of about 4 to 5 feet, to thereby facilitate joining chambers together within trenches, and to thereby increase the curve factor of a chamber string, compared to a string of about 6 foot long chambers.
- 2. (original) The method of claim 1, wherein the length of said chamber is about 4 feet
- 3. (original) The method of claim 1 wherein the joint between two mating chambers provides an essentially linear connection.
- 4. (original) The method of claim 3 wherein said string of chambers has a horizontal plane curve factor of greater than 0.57 degrees per foot of length.
- 5-6 cancelled
- 7. (currently amended) In the method of manually installing arch shape cross section leaching chambers having sidewalls with a multiplicity of perforations for passage of water, for forming an interconnected string of chambers within a trench in soil, wherein each chamber has a first end and an opposing second end, wherein the first and second ends of adjacent chambers are configured to mate with a load transferring joint; the improvement which comprises: increasing the number of joints for a given length of chamber string, so that to make the string of interconnected chambers adaptable to angular variations in the horizontal and vertical planes
- 8. The method of claim 7, wherein the nominal length of said chamber is about 4 feet.

- 9. The method of claim 7 wherein the joint between two mating chambers provides an essentially linear connection.
- 10. The method of claim 7 wherein said string has a horizontal plane curve factor of at least than 0.57 degrees per foot of length.

11. cancelled

- 12. (currently amended) In the method of manually installing arch shape cross section leaching chambers having sidewalls with a multiplicity of perforations for passage of water, for forming an interconnected string of chambers within a trench in soil, wherein each chamber has a first end and an opposing second end, wherein the first and second ends of adjacent chambers are configured to mate with at a load transferring joint; wherein the process of installation includes removing a chamber from a stack of nested chambers; engaging the first end of the chamber with the second end of a chamber previously installed in the trench while standing in the trench, and lowering the second end of the chamber into the the trench, the improvement which comprises: making the length of each chamber less than about 5.7 feet 100% of the mean height of a U.S. male, to thereby facilitate handling and installation.
- 13. (currently amended) The method of claim 12 wherein the chamber length is between about 4 and 5 feet.

14 cancelled

- 15. (currently amended) An arch shape cross section molded thermoplastic leaching chamber having having sidewalls with a multiplicity of perforations for passage of water and a length in the range of about 4 to about 5 feet, a length to width aspect ratio between 1.2 and 1.62.0, a weight per foot of about 2.7 to 3 pounds, and a flexibility factor of greater than about 10.2 inch.
- 16. The chamber of claim 17-15 having a width of about 3 feet.
- 17. (currently amended) A continuous curve arch shape cross section molded thermoplastic corrugated leaching chamber which comprises:

 corrugated interior and exterior surfaces which are substantially free of ribs;

opposing sidewalls having a multiplicity of horizontal slot perforations; and, opposing first and second ends shaped for interconnecting with like chambers; wherein the chamber has a length in the range 4 to 5 feet, and a flexibility factor of at least 0.2 inch.

18. cancelled

- 19. (new) The method of claim 12 wherein each chamber has a flexibility factor of greater than about 0.2 inch.
- 20. (new) The method of claim 19 wherein each chamber has a flexibility factor of greater than about 1 inch.
- 21. (new) The method of claim 12 wherein each chamber has a length to width aspect ratio between 1.2 and 2.0, a weight per foot of about 2.7 to 3 pounds, and a flexibility factor of greater than about 0.2 inch.
- 22. (new) The method of claim 12 wherein each chamber comprises a continuous curve arch shape cross section corrugated interior and exterior surfaces which are substantially free of ribs.
- 23. (new) The method of claim 22 wherein each chamber has a length to width aspect ratio between 1.2 and 2.0, a weight per foot of about 2.7 to 3 pounds.
- 24. (new) The method of claim 22 wherein each chamber has a flexibility factor of greater than about 1 inch.
- 25. (new) The chamber of claim 15 wherein the flexibility factor is greater than about 1 inch.